Inbound File Transfer through SFEs Examples

Category: File Transfers

DRAFT

This article is being reviewed for completeness and technical accuracy.

Inbound file transfers through SFEs require SecurID fob authentication, and the transfer can be done in two steps or one step depending on whether you have <u>set up SSH passthrough</u>.

To simplify the instructions, the approaches will be described in terms of transfers to/from one of the Pleiades front-end node, pfe1, but they also apply to any of the other systems that are in the enclave (such as other Pleiades front-end or bridge nodes, Columbia or Lou). For each method described, two commands are provided. The first one is used when (1) the user have identical username between his/her localhost and the NAS HECC systems, or (2) the usernames are different but the user has set up his/her local ~/.ssh/config file to include the NAS username. To learn how to set this up, download the ~/.ssh/config template. The second one is used when the usernames are different and the user does not include the NAS username in his/her local ~/.ssh/config file.

Two-step file transfers

If you have not set up SSH passthrough, this will be your only option for inbound file transfers. It requires you to use scp twice: once on your localhost to transfer files to/from one of the SFEs (for example, sfe1), and the second one on the SFE or the host inside the HECC Enclave to transfer files between SFEs and the HECC host such as pfe1.

To push files out of your localhost,

```
step 1:
your_localhost% scp foo sfel.nas.nasa.gov:
your_localhost% scp foo nas_username@sfel.nas.nasa.gov:
step 2:
sfel% scp foo pfel:
or
pfel% scp sfel:foo .
```

To pull files into your localhost,

```
step 1:
```

```
sfel% scp pfel:foo .
or
pfel% scp foo sfel:

step 2:
your_localhost% scp sfel.nas.nasa.gov:foo .
your_localhost% scp nas_username@sfel.nas.nasa.gov:foo .
```

• One-step file transfers

If you have set up SSH passthrough correctly, you can use either scp, bbftp or bbscp to transfer files between your localhost and a NAS HECC host.

Using scp,

To push files out of your localhost,

```
your_localhost% scp foo pfe1.nas.nasa.gov:
your_localhost% scp foo nas_username@pfe1.nas.nasa.gov:
```

To pull files into your localhost,

```
your_localhost% scp pfe1.nas.nasa.gov:foo .
your_localhost% scp nas_username@pfe1.nas.nasa.gov:foo .
```

◆ Using bbftp,

This requires that you have a bbftp client installed on your localhost.

To push files out of your localhost,

For formatting issue, the second command above was broken into two lines. In reality, it should be in one line.

To pull files into your localhost,

For formatting issue, the second command above was broken into two lines. In reality, it should be in one line.

See <u>bbftp</u> for more instructions.

Using bbscp,

This requires that you have the bbftp client version 3.2.0 and the NAS bbscp script installed on your localhost.

To push files out of your localhost,

```
your_localhost% bbscp foo pfel.nas.nasa.gov:
your_localhost% bbscp foo nas_username@pfel.nas.nasa.gov:
```

To pull files into your localhost,

```
your_localhost% bbscp pfel.nas.nasa.gov:foo .
your_localhost% bbscp nas_username@pfel.nas.nasa.gov:foo .
```

See <u>bbscp</u> for more instructions.

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Data Storage & Transfer -> File Transfers -> Inbound File Transfer through SFEs Examples

http://www.nas.nasa.gov/hecc/support/kb/entry/144/?ajax=1